

SEQUENCE LISTING

<110> O'Brien, Timothy J.
 Cannon, Martin J.
 Santin, Alessandro

<120> Methods for the early diagnosis of ovarian cancer

<130> D6223CIP/A/D/CIP

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Ser Leu Gly Arg Trp Pro Trp Gln Val
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Ser Leu Leu Ser Gly Asp Trp Val Leu
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Gly Leu Gln Leu Gly Val Gln Ala Val
5

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Lys Val Ser Asp Phe Arg Glu Trp Ile
5

<210> 32
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<223> Residues 308-316 of the hepsin protein

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Val Leu Gln Glu Ala Arg Val Pro Ile
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<210> 33
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<223> Residues 130-138 of the hepsin protein

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Arg Leu Leu Glu Val Ile Ser Val Cys
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Ala Leu Thr His Ser Glu Leu Asp Val
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Val Leu Ser Arg Trp Arg Val Phe Ala
5

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<223> Residues 26-34 of the hepsin protein

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Leu Leu Leu Leu Thr Ala Ile Gly Ala
5

<210> 37

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<223> Residues 284-292 of the hepsin protein

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Ala Leu Val Asp Gly Lys Ile Cys Thr
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Phe Leu Ala Ala Ile Cys Gln Asp Cys
5

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Leu Leu Ser Gly Asp Trp Val Leu Thr
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Ala Leu Thr Ala Gly Thr Leu Leu Leu
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Ala Leu Val His Leu Ser Ser Pro Leu
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Cys Leu Pro Ala Ala Gly Gln Ala Leu
5

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<223> Residues 230-238 of the hepsin protein

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Leu Gln Leu Gly Val Gln Ala Val Val
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Pro Leu Thr Glu Tyr Ile Gln Pro Val
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Ala Ile Gly Ala Ala Ser Trp Ala Ile
5

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Leu Val Asp Gly Lys Ile Cys Thr Val
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Leu Leu Leu Thr Ala Ile Gly Ala Ala
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 Met Val Phe Asp Lys Thr Glu Gly Thr
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 Ala Val Val Tyr His Gly Gly Tyr Leu
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Arg Leu Leu Glu Val Ile Ser Val Cys
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Leu Gln Leu Gly Val Gln Ala Val Val
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Ala Leu Thr Ala Gly Thr Leu Leu Leu
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Ala Leu Val His Leu Ser Ser Pro Leu
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 Cys Leu Pro Ala Ala Gly Gln Ala Leu
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Leu Leu Leu Thr Ala Ile Gly Ala Ala
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Gly Leu Gln Leu Gly Val Gln Ala Val
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Arg Val Pro Ile Ile Ser Asn Asp Val
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Leu Ser Cys Glu Glu Met Gly Phe Leu
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Leu Leu Ser Gly Asp Trp Val Leu Thr
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Ala Leu Val Asp Gly Lys Ile Cys Thr
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<210> 68

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<223> Residues 89-97 of the hepsin protein

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Ser Cys Glu Glu Met Gly Phe Leu Arg
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<210> 69

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Ser Ala Asp Ala Arg Leu Met Val Phe
5

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Val Ser Asp Phe Arg Glu Trp Ile Phe
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His Ser Glu Ala Ser Gly Met Val Thr
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Val Cys Asp Cys Pro Arg Gly Arg Phe
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Leu Thr Glu Tyr Ile Gln Pro Val Cys
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<223> Residues 47-55 of the hepsin protein

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Asp Gln Glu Pro Leu Tyr Pro Val Gln
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<210> 75

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<223> Residues 119-127 of the hepsin protein

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Cys Val Asp Glu Gly Arg Leu Pro His
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Lys Thr Glu Gly Thr Trp Arg Leu Leu
5

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His Ser Glu Leu Asp Val Arg Thr Ala
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<210> 78

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Asn Ser Glu Glu Asn Ser Asn Asp Ile
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Glu Leu Asp Val Arg Thr Ala Gly Ala
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Gly Thr Gly Cys Ala Leu Ala Gln Lys
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 Ser Ser Pro Leu Pro Leu Thr Glu Tyr
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<210> 85
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<223> Residues 87-95 of the hepsin protein

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 Gly Leu Ser Cys Glu Glu Met Gly Phe
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<210> 86
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 Tyr Ile Gln Pro Val Cys Leu Pro Ala
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<223> Residues 117-125 of the hepsin protein

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Phe Phe Cys Val Asp Glu Gly Arg Leu
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<210> 92

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<223> Residues 124-132 of the hepsin protein

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Arg Leu Pro His Thr Gln Arg Leu Leu
5

<210> 93

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<223> Residues 80-88 of the hepsin protein

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Arg Ser Asn Ala Arg Val Ala Gly Leu
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<210> 94

<211> 9

<212> PRT

<213> *Homo sapiens*

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<223> Residues 68-76 of the hepsin protein

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Lys Thr Glu Gly Thr Trp Arg Leu Leu
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<210> 95

<211> 9

<212> PRT

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<223> Residues 340-348 of the hepsin protein

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Gly Tyr Pro Glu Gly Gly Ile Asp Ala
5

<210> 96

<211> 9

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<213> *Homo sapiens*

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<223> Residues 242-250 of the hepsin protein

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Gly Tyr Leu Pro Phe Arg Asp Pro Asn
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<210> 97

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<223> Residues 51-59 of the hepsin protein

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Leu Tyr Pro Val Gln Val Ser Ser Ala
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<210> 98

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Ala Leu Val His Leu Ser Ser Pro Leu
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<210> 99

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<223> Residues 277-285 of the hepsin protein

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<223> Residues 19-27 of the hepsin protein

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 Ala Ala Leu Thr Ala Gly Thr Leu Leu
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<223> Residues 36-44 of the hepsin protein

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 Ser Trp Ala Ile Val Ala Val Leu Leu
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<223> Residues 35-43 of the hepsin protein

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 Ala Ser Trp Ala Ile Val Ala Val Leu
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<223> Residues 300-308 of the hepsin protein

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 Gln Tyr Tyr Gly Gln Gln Ala Gly Val
 5

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Ile Ser Arg Thr Pro Arg Trp Arg Leu
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<223> Residues 366-374 of the hepsin protein

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Thr Pro Arg Trp Arg Leu Cys Gly Ile
5

<210> 110
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Ala Val Val Tyr His Gly Gly Tyr Leu
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Cys Ser Arg Pro Lys Val Ala Ala Leu
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 5

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 Ala Ala Leu Thr Ala Gly Thr Leu Leu
 5

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 Gln Val Ser Ser Ala Asp Ala Arg Leu
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<223> Residues 163-171 of the hepsin protein

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Ile Val Gly Gly Arg Asp Thr Ser Leu
5

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<223> Residues 140-148 of the hepsin protein

<400> 117

Cys Pro Arg Gly Arg Phe Leu Ala Ala
5

<210> 118

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 20-28 of the hepsin protein

<400> 118

Ala Leu Thr Ala Gly Thr Leu Leu Leu
5

<210> 119

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 409-417 of the hepsin protein

<400> 119

Glu Ala Ser Gly Met Val Thr Gln Leu
5

<210> 120

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 259-267 of the hepsin protein

<400> 120

Ala Leu Val His Leu Ser Ser Pro Leu
5

<210> 121

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 35-43 of the hepsin protein

<400> 121

Ala Ser Trp Ala Ile Val Ala Val Leu
5

<210> 122

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 184-192 of the hepsin protein

<400> 122

Gly Ala His Leu Cys Gly Gly Ser Leu
5

<210> 123

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 18-26 of the hepsin protein

<400> 123

Val Ala Ala Leu Thr Ala Gly Thr Leu
5

<210> 124

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 222-230 of the hepsin protein

<400> 124
Val Ala Gln Ala Ser Pro His Gly Leu
5

<210> 125
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 224-232 of the hepsin protein

<400> 125
Gln Ala Ser Pro His Gly Leu Gln Leu
5

<210> 126
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 265-273 of the hepsin protein

<400> 126
Ser Pro Leu Pro Leu Thr Glu Tyr Ile
5

<210> 127
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 355-363 of the hepsin protein

<400> 127
Gly Pro Phe Val Cys Glu Asp Ser Ile
5

<210> 128
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 13-21 of the hepsin protein

<400> 128

Cys Ser Arg Pro Lys Val Ala Ala Leu
5

<210> 129
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 366-374 of the hepsin protein

<400> 129
Thr Pro Arg Trp Arg Leu Cys Gly Ile
5

<210> 130
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 140-148 of the hepsin protein

<400> 130
Cys Pro Arg Gly Arg Phe Leu Ala Ala
5

<210> 131
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 152-160 of the hepsin protein

<400> 131
Asp Cys Gly Arg Arg Lys Leu Pro Val
5

<210> 132
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 363-371 of the hepsin protein

<400> 132
Ile Ser Arg Thr Pro Arg Trp Arg Leu
5

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<210> 133
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 133-141 of the hepsin protein

<400> 133
Ile Val Gly Gly Arg Asp Thr Ser Leu
5

<210> 134
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 331-339 of the hepsin protein

<400> 134
Gln Ile Lys Pro Lys Met Phe Cys Ala
5

<210> 135
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 80-88 of the hepsin protein

<400> 135
Arg Ser Asn Ala Arg Val Ala Gly Leu
5

<210> 136
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 179-187 of the hepsin protein

<400> 136
Ser Leu Arg Tyr Asp Gly Ala His Leu
5

<210> 137

<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 43-51 of the hepsin protein

<400> 137
Leu Leu Arg Ser Asp Gln Glu Pro Leu
5

<210> 138
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 409-417 of the hepsin protein

<400> 138
Glu Ala Ser Gly Met Val Thr Gln Leu
5

<210> 139
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 311-319 of the hepsin protein

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Glu Ala Arg Val Pro Ile Ile Ser Asn
5

<210> 140
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 222-230 of the hepsin protein

<400> 140
Val Ala Gln Ala Ser Pro His Gly Leu
5

<210> 141
<211> 9
<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 19-27 of the hepsin protein

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Ala Ala Leu Thr Ala Gly Thr Leu Leu
5

<210> 142

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 18-26 of the hepsin protein

<400> 142

Val Ala Ala Leu Thr Ala Gly Thr Leu
5

<210> 143

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 184-192 of the hepsin protein

<400> 143

Gly Ala His Leu Cys Gly Gly Ser Leu
5

<210> 144

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 224-232 of the hepsin protein

<400> 144

Gln Ala Ser Pro His Gly Leu Gln Leu
5

<210> 145

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 82-90 of the hepsin protein

<400> 145

Asn Ala Arg Val Ala Gly Leu Ser Cys
5

<210> 146

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 204-212 of the hepsin protein

<400> 146

Cys Phe Pro Glu Arg Asn Arg Val Leu
5

<210> 147

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 212-220 of the hepsin protein

<400> 147

Leu Ser Arg Trp Arg Val Phe Ala Gly
5

<210> 148

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 172-180 of the hepsin protein

<400> 148

Gly Arg Trp Pro Trp Gln Val Ser Leu
5

<210> 149

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

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<223> Residues 44-52 of the hepsin protein

<400> 149

Leu Arg Ser Asp Gln Glu Pro Leu Tyr
5

<210> 150

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 155-163 of the hepsin protein

<400> 150

Arg Arg Lys Leu Pro Val Asp Arg Ile
5

<210> 151

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 213-221 of the hepsin protein

<400> 151

Ser Arg Trp Arg Val Phe Ala Gly Ala
5

<210> 152

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 166-174 of the hepsin protein

<400> 152

Gly Arg Asp Thr Ser Leu Gly Arg Trp
5

<210> 153

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 369-377 of the hepsin protein

<400> 153
Trp Arg Leu Cys Gly Ile Val Ser Trp
5

<210> 154
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 180-188 of the hepsin protein

<400> 154
Leu Arg Tyr Asp Gly Ala His Leu Cys
5

<210> 155
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 96-104 of the hepsin protein

<400> 155
Leu Arg Ala Leu Thr His Ser Glu Leu
5

<210> 156
<211> 9
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<213> *Homo sapiens*

<220>

<223> Residues 396-404 of the hepsin protein

<400> 156
Phe Arg Glu Trp Ile Phe Gln Ala Ile
5

<210> 157
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 123-131 of the hepsin protein

<400> 157
Gly Arg Leu Pro His Thr Gln Arg Leu

<210> 158
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

<220>

<223> Residues 207-215 of the hepsin protein

<400> 158
 Glu Arg Asn Arg Val Leu Ser Arg Trp
 5

<210> 159
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

<220>

<223> Residues 209-217 of the hepsin protein

<400> 159
 Asn Arg Val Leu Ser Arg Trp Arg Val
 5

<210> 160
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

<220>

<223> Residues 14-22 of the hepsin protein

<400> 160
 Ser Arg Pro Lys Val Ala Ala Leu Thr
 5

<210> 161
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

<220>

<223> Residues 106-114 of the hepsin protein

<400> 161
 Val Arg Thr Ala Gly Ala Asn Gly Thr
 5

<210> 162
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

<220>

<223> Residues 129-137 of the hepsin protein

<400> 162
 Gln Arg Leu Leu Glu Val Ile Ser Val
 5

<210> 163
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

<220>

<223> Residues 349-357 of the hepsin protein

<400> 163
 Cys Gln Gly Asp Ser Gly Gly Pro Phe
 5

<210> 164
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 <213> *Homo sapiens*

<220>

<223> Residues 61-69 of the hepsin protein

<400> 164
 Ala Arg Leu Met Val Phe Asp Lys Thr
 5

<210> 165
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

<220>

<223> Residues 215-223 of the hepsin protein

<400> 165
 Trp Arg Val Phe Ala Gly Ala Val Ala
 5

<210> 166
 <211> 9

<212> PRT
 <213> *Homo sapiens*

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 <223> Residues 143-151 of the hepsin protein

 <400> 166
 Gly Arg Phe Leu Ala Ala Ile Cys Gln
 5

 <210> 167
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

 <220>

 <223> Residues 246-254 of the hepsin protein

 <400> 167
 Phe Arg Asp Pro Asn Ser Glu Glu Asn
 5

 <210> 168
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

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 <223> Residues 132-140 of the hepsin protein

 <400> 168
 Leu Glu Val Ile Ser Val Cys Asp Cys
 5

 <210> 169
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

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 <223> Residues 91-99 of the hepsin protein

 <400> 169
 Glu Glu Met Gly Phe Leu Arg Ala Leu
 5

 <210> 170
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

<220>

<223> Residues 264-272 of the hepsin protein

<400> 170

Ser Ser Pro Leu Pro Leu Thr Glu Tyr
5

<210> 171

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 310-318 of the hepsin protein

<400> 171

Gln Glu Ala Arg Val Pro Ile Ile Ser
5

<210> 172

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 319-327 of the hepsin protein

<400> 172

Asn Asp Val Cys Asn Gly Ala Asp Phe
5

<210> 173

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<223> Residues 4-12 of the hepsin protein

<400> 173

Lys Glu Gly Gly Arg Thr Val Pro Cys
5

<210> 174

<211> 9

<212> PRT

<213> *Homo sapiens*

<220>

<400> 178
Gln Ala Val Val Tyr His Gly Gly Tyr
5

<210> 179
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 109-117 of the hepsin protein

<400> 179
Ala Gly Ala Asn Gly Thr Ser Gly Phe
5

<210> 180
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 270-278 of the hepsin protein

<400> 180
Thr Glu Tyr Ile Gln Pro Val Cys Leu
5

<210> 181
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 174-182 of the hepsin protein

<400> 181
Trp Pro Trp Gln Val Ser Leu Arg Tyr

<210> 182
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 293-301 of the hepsin protein

<400> 182

Val Thr Gly Trp Gly Asn Thr Gln Tyr
5

<210> 183
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 69-77 of the hepsin protein

<400> 183
Thr Glu Gly Thr Trp Arg Leu Leu Cys
5

<210> 184
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 90-98 of the hepsin protein

<400> 184
Cys Glu Glu Met Gly Phe Leu Arg Ala
5

<210> 185
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 252-260 of the hepsin protein

<400> 185
Glu Glu Asn Ser Asn Asp Ile Ala Leu
5

<210> 186
<211> 9
<212> PRT
<213> *Homo sapiens*

<220>

<223> Residues 48-56 of the hepsin protein

<400> 186
Gln Glu Pro Leu Tyr Pro Val Gln Val
5

<210> 187
 <211> 9
 <212> PRT
 <213> *Homo sapiens*

<220>

<223> Residues 102-110 of the hepsin protein

<400> 187
 Ser Glu Leu Asp Val Arg Thr Ala Gly
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<210> 188
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 <213> *Homo sapiens*

<220>

<223> full length cDNA of hepsin

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